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APPLICATION I	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,672		04/18/2002	Joelle Thonnard	BM45395	BM45395 1681	
25308	7590	04/26/2004		EXAMINER		
DECHE		BLOOM, ESQ	BASKAR, PADMAVATHI			
		ANTIC TOWER	ART UNIT	PAPER NUMBER		
1717 AR			1645			
PHILADELPHIA, PA 19103			DATE MAILED: 04/26/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on 30 December 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 28-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are objected to. 8) Claim(s) 28-50 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		raumavami v baskai	1045						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filled after 50 (b) Moving 14 for the mailing date of this communication. Failure for reply is apselled above, the mailmun statutory pend will apply and will specie 30 (c) Moving 15 from the mailing date of this communication. Failure to reply is apselled above, the mailmun statutory pend will apply and will specie 18 (d) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statutus, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three mornths after the mailing date of this communication, even if timely filled, may reduce any examp parent form adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on 30 December 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 28-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected. 7) Claim(s) is/are rejected to extension and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment i	The MAILING DATE of this communication appe	ears on the cover sheet wi	th the correspondence address						
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be limely filed after SIX (6) MONTHS from the mailing date of this communication. If the period to reply specified above is less than fully (30) days, a pepty within the stanutory minimum of thirty (12) days will be considered timely. Failure to reply within the set or extended period for reply with (17) (30) days, and will expire SIX (6) MONTHS from the mailing date of this communication. Plant to reply within the set or extended period for reply with provided by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any searned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 December 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 28-50 is/are pending in the application. 4) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) Mone of: 1. Certified copies of the priority documents have been received in Application No. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See	Period for Reply								
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Restriction

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Applicant's amendment filed on 12/30/01 has been entered. Applicant requests the office to cancel claims of the application as filed in PCT and enter new claims 27-48. However, it is noted that claims 1-27 are present as filed in PCT in the application. Therefore, claims 1-27 have been canceled and new claims 27-49 have been renumbered as 28-50 respectively and have been entered, Claims 28-50 are pending in the application.

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 28, 30, 33, 35, 36, 39 and 44-45 drawn to a polypeptide (SEQ.ID.NO: 2) and a method of use as a vaccine composition.

Group II, claims 29, 31, 32,34,37,38,40,41,42 and 43 drawn to a DNA (SEQ.ID.NO: 1), vector and a host cell.

Group III, claim 46 and 50 drawn to an antibody.

Group IV, claim 47 drawn to a method for inducing an immune response using a polypeptide. Group V, claim 48 drawn to a method for diagnosing M.catarrhalis infection using peptide or antibody.

Group VI, claim 49 drawn to a method for inducing immune response using polynucleotide.

3. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is considered to be polypeptide, which is made up of amino acids.

The special technical feature of Group II is considered to be polynucleotide that shares no common structure, property and function with Group I, amino acid since polynucleotide contains nucleic acid.

The special technical feature of Group III considered to be antibody that shares no common structure, property and function from Inventions I-II since it has an inherent affinity, avidity, and specificity that DNA or a simple protein is not capable of expressing and do not require each other for their practice.

The claimed polypeptide, SEQ.ID.NO: 2 and polynucleotide, SEQ.ID.NO: 1 sequences share no common special technical feature because they share no common structure, function or property. Therefore, where structural identity is required, such as for hybridization or expression of protein or binding of antibody, each sequence appears perform a different function in that peptides elicit an antibody response and nucleic acids encode peptides that specifically bind to an antibody. Thus they share no common structure and function so as to form a single general inventive concept under Rule 13.1.

Since the special technical feature of the Group I invention is not present in the Group IIIII claims, and the special technical features of the Group II-III inventions are not present in the
Group I claims, unity of invention is lacking.

The technical feature linking Groups IV-VI is considered to be methods utilizing products that share no common structure, property and function and methods of using products so as to form a single general inventive concept under Rule 13.1. Hence, unity is lacking among groups IV-VI.

Pursuant to 37 C.F.R. 1.475 (d), the ISA/US considers that where multiple products, processes and methods are claimed, the main invention shall consists of the first invention of the category first mentioned in the claims and the first recited invention of each of the other categories related thereto. Accordingly the main invention (Group 1) comprises polypeptide, which is the first product.

Further pursuant to 37 C.F.R. 1.475 (d), the ISA/US considers that any feature which the subsequently recited products and methods share with the main invention does not constitute a special technical feature within the meaning of PCT Rule 13.2 and that each of such products and methods accordingly defines a separate invention. Therefore, the groups of inventions above do not constitute a special technical feature within the meaning of PCT Rule 13.2 and that each of such products and methods accordingly defines a separate invention.

Accordingly Groups I-VI are not so linked by the same or a corresponding special technical feature so as to form a single general inventive concept.

- 5. Applicant is required, in reply to this action, to elect a group and one sequence and identify the SEQ.ID.NO to which the claims shall be restricted. The reply must also identify the claims readable on the elected invention, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.
- 6. Papers related to this application may be submitted to Group 1600, AU 1645 by facsimile transmission. Papers should be transmitted via the PTO Fax Center, which receives

transmissions 24 hours a day and 7 days a week. The transmission of such papers by facsimile must conform to the notice published in the Official Gazete, 1096 OG 30, November 15, 1989. The RightFax number for submission of before-final amendments is (703) 872-9306. The RightFax number for submission of after-final amendments is (703) 872-9307.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Padma Baskar Ph.D., whose telephone number is ((571) 272-0853. A message may be left on the Examiner's voice mail system. The Examiner can normally be reached on Monday to Friday from 6.30 a.m. to 4.00 p.m. except First Friday of each bi-week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith can be reached on (571) 272-0864. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Padma Baskar Ph.D.

4/20/04

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